

# Specifications — FOX 4G DA8 Series

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## Optical specifications

**NOTE** These amplifiers are class 1 laser products. They meet the safety regulations of IEC-60825, FDA 21, CFR 1040.10, and FDA 21 CFR 1040.11.

### Number/type

|                         |  |
|-------------------------|--|
| Input.....              | 1 singlemode or multimode fiber optic  |
| Output.....             | 8 singlemode or multimode fiber optic  |
| Connectors .....        | 8 LC connectors  |
| Operating distance..... | 30 km (18.75 miles) with singlemode (SM) cables<br>0.15 km (492') with multimode (MM) cables |

**NOTE** Operating distance is approximate. These are typical distances. The maximum distance may be greater than these typical numbers depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

Nominal peak wavelength..... 850 nm for MM model, 1310 nm for SM model

Data rate ..... 4.25 Gbps

### Transmission power

|                 |                 |
|-----------------|-----------------|
| Singlemode..... | -5 dBm, typical |
| Multimode.....  | -5 dBm, typical |

### Maximum receiver sensitivity

|                 |                  |
|-----------------|------------------|
| Singlemode..... | -18 dBm, typical |
| Multimode.....  | -12 dBm, typical |

### Optical loss budget

|                 |                |
|-----------------|----------------|
| Singlemode..... | 13 dB, maximum |
| Multimode.....  | 7 dB, maximum  |

## Control/remote

Serial control ports..... 1 RS-232, 3.5 mm captive screw connector, 3 pole (rear panel)  
1 RS-232, 2.5 mm mini stereo jack (front panel)

Baud rate and protocol..... 9600 baud, 8 data bits, 1 stop bit, no parity

Serial control pin configurations. Captive screw connector: 1 = TX, 2 = RX, 3 = GND  
Mini stereo jack: tip = TX, ring = RX, sleeve = GND

Program control..... Extron's control/configuration program for Windows®  
Extron's Simple Instruction Set (SIS™)

## General

Power ..... 100 VAC to 240 VAC, 50-60 Hz, 20 watts, internal

Temperature/humidity ..... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing  
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Cooling ..... Convection, vents on top and sides

### Mounting

Rack mount ..... Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01; RSB 129, 60-604-01)

Furniture mount ..... Yes, with optional MBU 125 Under-desk Mounting Kit (#70-077-01) and MBD 129 Through-desk Mounting Kit (70-077-02)

Enclosure type ..... Metal

Enclosure dimensions..... 1.7" H x 8.7" W x 9.5" D (1U high, half rack wide)  
(4.3 cm H x 22.1 cm W x 24.1 cm D)  
(Depth excludes connectors.)

Product weight ..... 2.3 lbs (1 kg)

Shipping weight ..... 4 lbs (2 kg)

Vibration ..... ISTA 1A in carton (International Safe Transit Association)

## **Specifications — FOX 4G DA8 Series, cont'd**

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### Regulatory compliance

|               |   |
|---------------|---|
| Safety.....   | CE, CUL, UL                                       |
| EMI/EMC ..... | CE, C-tick, FCC Class A, FDA Class 1, ICES, VCCI, |
| MTBF.....     | 30,000 hours                                      |
| Warranty..... | 3 years parts and labor                           |

**NOTE** All nominal levels are at  $\pm 10\%$ .

**NOTE** Specifications are subject to change without notice.

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